



September 21, 2005

To: Mr. Noah C. Hawk, Art Unit: 3637
From: Michael A. Zerillo
Subject: Application Number 10/737,330

Amended Claims – 2 sheets.

CLAIMS

I Claim:

1. (Currently Amended) ~~An~~ A retrofit electric opening and closing device that retrofits attaches to new and existing patio umbrellas, whereby the patio umbrellas have an opening and closing means, whereby a person with ordinary skill can attach the device to the opening and closing means of the patio umbrellas with little or no modification, whereby the device drivingly engages the opening and closing means of the patio umbrellas, the device comprising:

a reversible electric motor;

a reel drivingly engaged with the motor;

a housing means for the motor and the reel;

a length of cable affixable at one end to the reel whereby the opposite end of the cable is affixable to the patio umbrella opening and closing means;

a means to affix the housing to the patio umbrella at a location to thereby establish control of the patio umbrella opening and closing means;

a means to provide electricity;

a switch having two means to connect and disconnect the electricity to the motor, whereby engagement of the first means connects the electricity to the motor and causes the motor to operate in a first direction of rotation causing the patio umbrellas to open, whereby subsequent disengagement of the first means disconnects the electricity to the motor to thereby cause the motor to stop operating and causing the patio umbrella to stop opening, and whereby engagement of the second means causes the motor to operate in a second direction of rotation causing the patio umbrellas to close, whereby subsequent disengagement of the second means disconnects the electricity to the motor to thereby cause the motor to stop operating and causing the patio umbrella to stop closing; ~~whereby the switch has additional means to disconnect the electricity to the motor to thereby cause the motor to stop operating;~~

a remote control receiver having two means to connect and disconnect the electricity to the motor, whereby engagement of the first means connects the electricity to the motor and causes the motor to operate in a first direction of rotation causing the patio umbrellas to open, whereby subsequent disengagement of the first means disconnects the electricity to the motor to thereby cause the motor to stop operating and causing the patio umbrella to stop opening, and whereby engagement of the second means causes the motor to operate in a second direction of rotation causing the patio umbrellas to close, whereby subsequent disengagement of the second means disconnects the electricity to the motor to thereby cause the motor to stop operating and causing the patio umbrella to stop closing; ~~whereby the receiver has additional means to disconnect the electricity to the motor to thereby cause the motor to stop operating;~~

a remote control transmitter having means to control the remote control receiver.